

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	2102397-991400
First Inventor	Hieu Van Tran
Title	Column Redundancy For Digital Multilevel Nonvolatile Memory
Express Mail Label No.	EV 301143879 US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents

<p>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing)</p> <p>2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</p> <p>3. <input checked="" type="checkbox"/> Specification [Total Pages: 81] (preferred arrangement set forth below)</p> <ul style="list-style-type: none"> <li>- Descriptive title of the invention</li> <li>- Cross Reference to Related Applications</li> <li>- Statement Regarding Fed sponsored R&amp;D</li> <li>- Reference to sequence listing, a table or a computer program listing appendix</li> <li>- Background of the Invention</li> <li>- Brief Description of the Drawings(if filed)</li> <li>- Detailed description</li> <li>- Claim(s)</li> <li>- Abstract of the Disclosure</li> </ul> <p>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [ Total Sheets 29 ]</p> <p>5. Oath or Declaration and Power of Attorney [Total Pages 03]</p> <p>a. <input checked="" type="checkbox"/> Newly executed (original)</p> <p>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed)</p> <p>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b> Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</p> <p>6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76.</p>	<p>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</p> <p>8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)</p> <p>a. <input type="checkbox"/> Computer Readable Form (CRF)</p> <p>b. Specification Sequence Listing on:</p> <ul style="list-style-type: none"> <li>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies; or</li> <li>ii. <input type="checkbox"/> paper</li> </ul> <p>c. <input type="checkbox"/> Statements verifying identity of above copies</p>
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**ACCOMPANYING APPLICATION PARTS**

9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s))	10. <input checked="" type="checkbox"/> 37 CFR 3.73(b) Statement (when there is an assignee) <input checked="" type="checkbox"/> Power of Attorney
11. <input type="checkbox"/> English Translation Document (if applicable)	12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations
13. <input type="checkbox"/> Preliminary Amendment	14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized) Certified Copy of Priority Document(s) (if foreign priority is claimed)
15. <input type="checkbox"/> Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.	16. <input type="checkbox"/> Other: ..... Check No. <u>541473</u> (\$2,596.00) .....

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

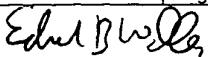
 Continuation     Divisional     Continuation-in-part (CIP)    of prior application No.: \_\_\_\_\_ / \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_ Group/Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**18. CORRESPONDENCE ADDRESS**

<input checked="" type="checkbox"/> Customer Number <b>26379</b>	Insert Customer No. or Attach hereto and mail here			or <input type="checkbox"/> Correspondence address below
Name	Edward B. Weller			
Address	Gray Cary Ware & Freidenrich 2000 University Avenue			
City	East Palo Alto	State	CA	Zip Code
Country	US	Telephone	650/833-2436	Fax

NAME (Print/Type)	Edward B. Weller	Registration No. (Attorney/Agent)	37,468
Signature			Date
			July 28, 2003

07/28/03

14202 U.S. PTO

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 2,596.00)

## Complete if Known

Application Number	Not yet assigned
Filing Date	July 28, 2003
First Named Inventor	Hieu Van Tran
Examiner Name	Not yet assigned
Art Unit	Not yet assigned
Attorney Docket No.	2102397-991400

## METHOD OF PAYMENT (check all that apply)

 Check    Credit Card    Money Order    Other    None

Deposit Account Number 07-1896

Deposit Account Name Gray Cary Ware & Freidenrich LLP

The Commissioner is authorized to: (check all that apply)

Charge (fees) indicated below.    Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for filing fee  
 to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)		
1001 750	2001 375	Utility filing fee	750.00
1002 330	2002 165	Design filing fee	
1003 520	2003 260	Plant filing fee	
1004 750	2004 375	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1) (\$ 750.00)

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims	Fee from below	Fee Paid
Total Claims	97	-20** =	77 X 18	= 1,386.00
Independent Claims	08	-3** =	05 X 84	= 420.00
Multiple Dependent		X		

Large Entity	Small Entity	Fee Description
Fee Code (\$)	Fee Code (\$)	
1202 18	2202 9	Claims in excess of 20
1201 84	2201 42	Independent claims in excess of 3
1203 280	2203 140	Multiple dependent claim, if not paid
1204 84	2204 42	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 1,806.00)

\*\* or number previously paid, if greater; For Reissues, see above

## 3. ADDITIONAL FEES

Large Entity	Small Entity
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Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive – unavoidable	
1453 1,300	2453 650	Petition to revive – unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2503 315	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	40.00
1809 750	2809 375	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810 750	2810 375	For each additional invention to be examined (37 CFR § 1.129(b))	
1801 750	2801 375	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

\* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00)

## SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	EDWARD B. WELLER	Registration No. (Attorney/Agent)	37,468	Telephone	650-833-2436
Signature	<i>Edward B. Weller</i>			Date	July 28, 2003

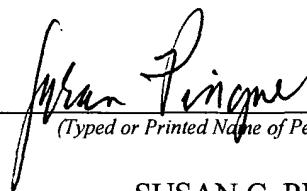
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)**Docket No.  
**2102397-991400**Applicants: Hieu Van Tran, Sakhawat M. Khan, William J. Saiki, and  
George J. Korsh

Serial No.	Filing Date	Examiner	Group Art Unit
Not Yet Assigned	July 28, 2003	Not Yet Assigned	N/A

Invention:

**COLUMN REDUNDANCY FOR DIGITAL MULTILEVEL NONVOLATILE MEMORY**I hereby certify that this UTILITY PATENT APPLICATION*(Identify type of correspondence)*is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Commissioner of Patents and Trademarks, P.O. Box 1450, Alexandria, VA 22313-1450, Mail Stop Patent Application on July 28, 2003.*(Typed or Printed Name of Person Mailing Correspondence)*SUSAN C. PINGUE*(Signature of Person Mailing Correspondence)*EV 301143879 US*("Express Mail" Mailing Label Number)*